

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL070518\  
 Data File : VL032226.D  
 Acq On : 6 Jul 2018 9:34  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jul 06 12:55:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 132   | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.317 | 1.360 | -3.3  | 180#  | -0.01    |
| 3    | Chlorodifluoromethane       | 1.222 | 1.287 | -5.3  | 152#  | -0.01    |
| 4    | Chloromethane               | 0.652 | 0.770 | -18.1 | 165#  | -0.01    |
| 5 T  | Vinyl Chloride              | 0.659 | 0.742 | -12.6 | 163#  | 0.00     |
| 6 T  | Bromomethane                | 0.375 | 0.403 | -7.5  | 151#  | 0.00     |
| 7    | Chloroethane                | 0.233 | 0.258 | -10.7 | 158#  | -0.01    |
| 8 T  | Dichlorotetrafluoroethane   | 1.469 | 1.536 | -4.6  | 155#  | 0.00     |
| 9 T  | Propene                     | 0.569 | 0.612 | -7.6  | 151#  | -0.01    |
| 10 T | Heptane                     | 1.660 | 1.943 | -17.0 | 159#  | -0.02    |
| 11 T | Trichlorofluoromethane      | 1.425 | 1.437 | -0.8  | 142   | -0.01    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.949 | 0.873 | 8.0   | 135   | -0.02    |
| 13   | Ethanol                     | 0.173 | 0.146 | 15.6  | 139   | 0.00     |
| 14 T | Bromoethene                 | 0.451 | 0.434 | 3.8   | 134   | -0.01    |
| 15 T | Acetone                     | 1.169 | 1.088 | 6.9   | 137   | -0.01    |
| 16 T | 1,3-Butadiene               | 0.558 | 0.686 | -22.9 | 165#  | 0.00     |
| 17   | tert-Butyl alcohol          | 0.745 | 0.939 | -26.0 | 171#  | -0.01    |
| 18 T | 1,1-Dichloroethene          | 0.454 | 0.425 | 6.4   | 131   | -0.01    |
| 19 T | Isopropyl Alcohol           | 0.972 | 0.885 | 9.0   | 125   | -0.01    |
| 20 T | Methylene Chloride          | 0.427 | 0.376 | 11.9  | 135   | -0.01    |
| 21 T | Allyl Chloride              | 0.798 | 0.742 | 7.0   | 128   | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 0.474 | 0.444 | 6.3   | 140   | -0.02    |
| 23 T | Vinyl Acetate               | 2.120 | 2.134 | -0.7  | 141   | -0.02    |
| 24 T | 1,1-Dichloroethane          | 1.358 | 1.440 | -6.0  | 153#  | -0.02    |
| 25 T | Ethyl Acetate               | 2.419 | 2.379 | 1.7   | 143   | -0.02    |
| 26 T | Hexane                      | 1.114 | 1.096 | 1.6   | 147   | -0.02    |
| 27 T | Carbon Disulfide            | 1.107 | 1.071 | 3.3   | 129   | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 1.969 | 1.880 | 4.5   | 135   | -0.02    |
| 29 T | Chloroform                  | 1.622 | 1.677 | -3.4  | 148   | -0.02    |
| 30 T | Cyclohexane                 | 1.050 | 1.109 | -5.6  | 159#  | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.113 | 1.172 | -5.3  | 150   | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 1.700 | 1.852 | -8.9  | 161#  | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 131   | -0.02    |
| 34 T | 2-Butanone                  | 0.635 | 0.663 | -4.4  | 143   | -0.02    |
| 35 T | Carbon Tetrachloride        | 0.685 | 0.732 | -6.9  | 158#  | -0.02    |
| 36 T | Benzene                     | 0.968 | 1.067 | -10.2 | 163#  | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.482 | 0.577 | -19.7 | 169#  | -0.02    |
| 38 T | Trichloroethene             | 0.378 | 0.345 | 8.7   | 128   | -0.02    |
| 39 T | 1,2-Dichloropropane         | 0.382 | 0.425 | -11.3 | 155#  | -0.02    |
| 40 T | 1,4-Dioxane                 | 0.150 | 0.133 | 11.3  | 118   | -0.02    |
| 41 T | Tetrahydrofuran             | 0.380 | 0.407 | -7.1  | 146   | -0.02    |
| 42 T | Bromodichloromethane        | 0.756 | 0.818 | -8.2  | 140   | -0.02    |
| 43   | Methyl Methacrylate         | 0.401 | 0.468 | -16.7 | 151#  | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 1.694 | 1.888 | -11.5 | 152#  | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 0.497 | 0.576 | -15.9 | 142   | -0.02    |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.594 | 0.639 | -7.6  | 142   | -0.02    |
| 47 T | 1,1,2-Trichloroethane     | 0.397 | 0.423 | -6.5  | 144   | -0.02    |
| 48 T | Dibromochloromethane      | 0.614 | 0.680 | -10.7 | 141   | -0.02    |
| 49 T | Bromoform                 | 0.514 | 0.514 | 0.0   | 127   | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 1.040 | 1.091 | -4.9  | 147   | -0.02    |
| 51 T | 2-Hexanone                | 0.862 | 0.922 | -7.0  | 144   | -0.02    |
| 52 T | Tetrachloroethene         | 0.352 | 0.324 | 8.0   | 137   | -0.02    |
| 53 T | Toluene                   | 1.170 | 1.236 | -5.6  | 144   | -0.02    |
| 54 T | 1,2-Dibromoethane         | 0.596 | 0.656 | -10.1 | 147   | -0.02    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 119   | -0.02    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.446 | 0.492 | -10.3 | 149   | -0.03    |
| 57 T | Chlorobenzene             | 0.866 | 0.916 | -5.8  | 146   | -0.02    |
| 58 T | Ethyl Benzene             | 1.612 | 1.754 | -8.8  | 151#  | -0.02    |
| 59 T | m/p-Xylene                | 1.292 | 1.424 | -10.2 | 156#  | -0.02    |
| 60 T | o-Xylene                  | 1.288 | 1.351 | -4.9  | 150#  | -0.02    |
| 61 T | Styrene                   | 1.056 | 1.109 | -5.0  | 139   | -0.02    |
| 62   | Isopropylbenzene          | 1.981 | 1.878 | 5.2   | 140   | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.998 | 0.945 | 5.3   | 150   | -0.02    |
| 64   | n-propylbenzene           | 0.513 | 0.481 | 6.2   | 139   | -0.02    |
| 65   | tert-Butylbenzene         | 1.741 | 1.490 | 14.4  | 134   | -0.02    |
| 66 T | Benzyl Chloride           | 1.075 | 0.843 | 21.6  | 101   | -0.02    |
| 67   | sec-Butylbenzene          | 2.549 | 2.237 | 12.2  | 138   | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.764 | 0.806 | -5.5  | 133   | -0.02    |
| 69   | p-Isopropyltoluene        | 2.045 | 1.771 | 13.4  | 131   | -0.02    |
| 70   | n-Butylbenzene            | 2.135 | 1.955 | 8.4   | 139   | -0.02    |
| 71   | 2-Chlorotoluene           | 1.525 | 1.483 | 2.8   | 147   | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.664 | 1.551 | 6.8   | 138   | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.568 | 1.467 | 6.4   | 138   | -0.03    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.582 | 1.400 | 11.5  | 136   | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 0.900 | 0.742 | 17.6  | 125   | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 0.912 | 0.760 | 16.7  | 123   | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 0.899 | 0.727 | 19.1  | 120   | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.313 | 0.402 | -28.4 | 191#  | -0.02    |
| 79 T | Naphthalene               | 1.438 | 1.115 | 22.5  | 97    | -0.03    |
| 80 T | Naphthalene,2-methyl-     | 0.519 | 0.572 | -10.2 | 90    | -0.02    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.649 | 0.523 | 19.4  | 100   | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0